



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/254,760A

DATE: 07/03/2002

TIME: 12:15:50

Input Set : A:\Sequence Listing.txt

Output Set: N:\CRF3\07032002\I254760A.raw

```

3 <110> APPLICANT: Kato, Seishi
4     Sekine, Shingo
5     Kimura, Tomoko
6     Kobayashi, Midori
8 <120> TITLE OF INVENTION: HUMAN PROTEINS HAVING SECRETORY SIGNAL
9     SEQUENCES AND DNAs ENCODING THESE PROTEINS
11 <130> FILE REFERENCE: GIN-6704CPUS
13 <140> CURRENT APPLICATION NUMBER: US 09/254,760A
14 <141> CURRENT FILING DATE: 1999-04-16
16 <150> PRIOR APPLICATION NUMBER: JP 8/243,060
17 <151> PRIOR FILING DATE: 1996-09-13
19 <150> PRIOR APPLICATION NUMBER: PCT/JP97/03239
20 <151> PRIOR FILING DATE: 1997-09-12
22 <160> NUMBER OF SEQ ID NOS: 27
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 154
28 <212> TYPE: PRT
29 <213> ORGANISM: Homo sapiens
31 <400> SEQUENCE: 1
32 Met Lys Val Ser Ala Ala Leu Ala Val Ile Leu Ile Ala Thr Ala
33 1      5      10      15
34 Leu Cys Ala Pro Ala Ser Ala Ser Pro Tyr Ser Ser Asp Thr Thr Pro
35      20      25      30
36 Cys Cys Phe Ala Tyr Ile Ala Arg Pro Leu Pro Arg Ala His Ile Lys
37      35      40      45
38 Glu Tyr Phe Tyr Thr Ser Gly Lys Cys Ser Asn Pro Ala Val Val His
39      50      55      60
40 Arg Ser Arg Met Pro Lys Arg Glu Gly Gln Gln Val Trp Gln Asp Phe
41 65      70      75      80
42 Leu Tyr Asp Ser Arg Leu Asn Lys Gly Lys Leu Cys His Pro Lys Glu
43      85      90      95
44 Pro Pro Ser Val Cys Gln Pro Arg Glu Glu Met Gly Ser Gly Val His
45      100     105     110
46 Gln Leu Phe Gly Asp Glu Leu Gly Trp Arg Val Leu Glu Pro Glu Leu
47      115     120     125

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55 <211> LENGTH: 154

56 <212> TYPE: PRT

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57 <213> ORGANISM: Homo sapiens
59 <400> SEQUENCE: 2
60 Met Asp Leu Arg Gln Phe Leu Met Cys Leu Ser Leu Cys Thr Ala Phe
61 1 5 10 15
62 Ala Leu Ser Lys Pro Thr Glu Lys Lys Asp Arg Val His His Glu Pro
63 20 25 30
64 Gln Leu Ser Asp Lys Val His Asn Asp Ala Gln Ser Phe Asp Tyr Asp
65 35 40 45
66 His Asp Ala Phe Leu Gly Ala Glu Glu Ala Lys Thr Phe Asp Gln Leu
67 50 55 60
68 Thr Pro Glu Glu Ser Lys Glu Arg Leu Gly Lys Ile Val Ser Lys Ile
69 65 70 75 80
70 Asp Gly Asp Lys Asp Gly Phe Val Thr Val Asp Glu Leu Lys Asp Trp
71 85 90 95
72 Ile Lys Phe Ala Gln Lys Arg Trp Ile Tyr Glu Asp Val Glu Arg Gln
73 100 105 110
74 Trp Lys Gly His Asp Leu Asn Glu Asp Gly Leu Val Ser Trp Glu Glu
75 115 120 125
76 Tyr Lys Asn Ala Thr Tyr Gly Tyr Val Leu Asp Asp Pro Asp Pro Asp
77 130 135 140
78 Asp Gly Phe Asn Tyr Lys Gln Met Met Val Arg Asp Glu Arg Arg Phe
79 145 150 155 160
80 Lys Met Ala Asp Lys Asp Gly Asp Leu Ile Ala Thr Lys Glu Glu Phe
81 165 170 175
82 Thr Ala Phe Leu His Pro Glu Glu Tyr Asp Tyr Met Lys Asp Ile Val
83 180 185 190
84 Val Gln Glu Thr Met Glu Asp Ile Asp Lys Asn Ala Asp Gly Phe Ile
85 195 200 205
86 Asp Leu Glu Glu Tyr Ile Gly Asp Met Tyr Ser His Asp Gly Asn Thr
87 210 215 220
88 Asp Glu Pro Glu Trp Val Lys Thr Glu Arg Glu Gln Phe Val Glu Phe
89 225 230 235 240
90 Arg Asp Lys Asn Arg Asp Gly Lys Met Asp Lys Glu Glu Thr Lys Asp
91 245 250 255
92 Trp Ile Leu Pro Ser Asp Tyr Asp His Ala Glu Ala Glu Ala Arg His
93 260 265 270
94 Leu Val Tyr Glu Ser Asp Gln Asn Lys Asp Gly Lys Leu Thr Lys Glu
95 275 280 285
96 Glu Ile Val Asp Lys Tyr Asp Leu Phe Val Gly Ser Gln Ala Thr Asp
97 290 295 300
98 Phe Gly Glu Ala Leu Val Arg His Asp Glu Phe
99 305 310 315
102 <210> SEQ ID NO: 3
103 <211> LENGTH: 158
104 <212> TYPE: PRT
105 <213> ORGANISM: Homo sapiens

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```

110 Lys Thr Gly Val Leu Gly Asp Ile Ile Met Arg Pro Ser Cys Ala Pro
111      20      25      30
112 Gly Trp Phe Tyr His Lys Ser Asn Cys Tyr Gly Tyr Phe Arg Lys Leu
113      35      40      45
114 Arg Asn Trp Ser Asp Ala Glu Leu Glu Cys Gln Ser Tyr Gly Asn Gly
115      50      55      60
116 Ala His Leu Ala Ser Ile Leu Ser Leu Lys Glu Ala Ser Thr Ile Ala
117 65      70      75      80
118 Glu Tyr Ile Ser Gly Tyr Gln Arg Ser Gln Pro Ile Trp Ile Gly Leu
119      85      90      95
120 His Asp Pro Gln Lys Arg Gln Gln Trp Gln Trp Ile Asp Gly Ala Met
121      100      105      110
122 Tyr Leu Tyr Arg Ser Trp Ser Gly Lys Ser Met Gly Gly Asn Lys His
123      115      120      125
124 Cys Ala Glu Met Ser Ser Asn Asn Asn Phe Leu Thr Trp Ser Ser Asn
125      130      135      140
126 Glu Cys Asn Lys Arg Gln His Phe Leu Cys Lys Tyr Arg Pro
127 145      150      155
130 <210> SEQ ID NO: 4
131 <211> LENGTH: 376
132 <212> TYPE: PRT
133 <213> ORGANISM: Homo sapiens
135 <400> SEQUENCE: 4
136 Met Val Trp Lys Val Ala Val Phe Leu Ser Val Ala Leu Gly Ile Gly
137 1      5      10      15
138 Ala Val Pro Ile Asp Asp Pro Glu Asp Gly Gly Lys His Trp Val Val
139      20      25      30
140 Ile Val Ala Gly Ser Asn Gly Trp Tyr Asn Tyr Arg His Gln Ala Asp
141      35      40      45
142 Ala Cys His Ala Tyr Gln Ile Ile His Arg Asn Gly Ile Pro Asp Glu
143      50      55      60
144 Gln Ile Val Val Met Met Tyr Asp Asp Ile Ala Tyr Ser Glu Asp Asn
145 65      70      75      80
146 Pro Thr Pro Gly Ile Val Ile Asn Arg Pro Asn Gly Thr Asp Val Tyr
147      85      90      95
148 Gln Gly Val Pro Lys Asp Tyr Thr Gly Glu Asp Val Thr Pro Gln Asn
149      100      105      110
150 Phe Leu Ala Val Leu Arg Gly Asp Ala Glu Ala Val Lys Gly Ile Gly
151      115      120      125
152 Ser Gly Lys Val Leu Lys Ser Gly Pro Gln Asp His Val Phe Ile Tyr
153      130      135      140
154 Phe Thr Asp His Gly Ser Thr Gly Ile Leu Val Phe Pro Asn Glu Asp
155 145      150      155      160
156 Leu His Val Lys Asp Leu Asn Glu Thr Ile His Tyr Met Tyr Lys His
157      165      170      175

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```

162 Ala Ala Asn Pro Arg Glu Ser Ser Tyr Ala Cys Tyr Tyr Asp Glu Lys
163      210      215      220
164 Arg Ser Thr Tyr Leu Gly Asp Trp Tyr Ser Val Asn Trp Met Glu Asp
165 225      230      235      240
166 Ser Asp Val Glu Asp Leu Thr Lys Glu Thr Leu His Lys Gln Tyr His
167      245      250      255
168 Leu Val Lys Ser His Thr Asn Thr Ser His Val Met Gln Tyr Gly Asn
169      260      265      270
170 Lys Thr Ile Ser Thr Met Lys Val Met Gln Phe Gln Gly Met Lys Arg
171      275      280      285
172 Lys Ala Ser Ser Pro Val Pro Leu Pro Pro Val Thr His Leu Asp Leu
173      290      295      300
174 Thr Pro Ser Pro Asp Val Pro Leu Thr Ile Met Lys Arg Lys Leu Met
175 305      310      315      320
176 Asn Thr Asn Asp Leu Glu Glu Ser Arg Gln Leu Thr Glu Glu Ile Gln
177      325      330      335
178 Arg His Leu Asp Tyr Glu Tyr Ala Leu Arg His Leu Tyr Val Leu Val
179      340      345      350
180 Asn Leu Cys Glu Lys Pro Tyr Pro Leu His Arg Ile Lys Leu Ser Met
181      355      360      365
182 Asp His Val Cys Leu Gly His Tyr
183      370      375
186 <210> SEQ ID NO: 5
187 <211> LENGTH: 173
188 <212> TYPE: PRT
189 <213> ORGANISM: Homo sapiens
191 <400> SEQUENCE: 5
192 Met Ala Ala Pro Ser Gly Gly Trp Asn Gly Val Arg Ala Ser Leu Trp
193 1      5      10      15
194 Ala Ala Leu Leu Gly Ala Val Ala Leu Arg Pro Ala Glu Ala Val
195      20      25      30
196 Ser Glu Pro Thr Thr Val Ala Phe Asp Val Arg Pro Gly Gly Val Val
197      35      40      45
198 His Ser Phe Ser His Asn Val Gly Pro Gly Asp Lys Tyr Thr Cys Met
199      50      55      60
200 Phe Thr Tyr Ala Ser Gln Gly Gly Thr Asn Glu Gln Trp Gln Met Ser
201 65      70      75      80
202 Leu Gly Thr Ser Glu Asp His Gln His Phe Thr Cys Thr Ile Trp Arg
203      85      90      95
204 Pro Gln Gly Lys Ser Tyr Leu Tyr Phe Thr Gln Phe Lys Ala Glu Val
205      100      105      110
206 Arg Gly Ala Glu Ile Glu Tyr Ala Met Ala Tyr Ser Lys Ala Ala Phe
207      115      120      125
208 Glu Arg Glu Ser Asp Val Pro Leu Lys Thr Glu Glu Phe Glu Val Thr
209      130      135      140

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Input Set : A:\Sequence Listing.txt

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```

216 <210> SEQ ID NO: 6
217 <211> LENGTH: 73
218 <212> TYPE: PRT
219 <213> ORGANISM: Homo sapiens
221 <400> SEQUENCE: 6
222 Met Gly Val Lys Leu Glu Ile Phe Arg Met Ile Ile Tyr Leu Phe Phe
223 1 5 10 15
224 Pro Val Ala Met Phe Trp Val Ser Asn Gln Ala Glu Trp Phe Glu Asp
225 20 25 30
226 Asp Val Ile Gln Arg Lys Arg Glu Leu Trp Pro Pro Glu Lys Leu Gln
227 35 40 45
228 Glu Ile Glu Glu Phe Lys Glu Arg Leu Arg Lys Arg Arg Glu Glu Lys
229 50 55 60
230 Leu Leu Arg Asp Ala Gln Gln Asn Ser
231 65 70
234 <210> SEQ ID NO: 7
235 <211> LENGTH: 1172
236 <212> TYPE: PRT
237 <213> ORGANISM: Homo sapiens
239 <400> SEQUENCE: 7
240 Met Arg Pro Phe Phe Leu Leu Cys Phe Ala Leu Pro Gly Leu Leu His
241 1 5 10 15
242 Ala Gln Gln Ala Cys Ser Arg Gly Ala Cys Tyr Pro Pro Val Gly Asp
243 20 25 30
244 Leu Leu Val Gly Arg Thr Arg Phe Leu Arg Ala Ser Ser Thr Cys Gly
245 35 40 45
246 Leu Thr Lys Pro Glu Thr Tyr Cys Thr Gln Tyr Gly Glu Trp Gln Met
247 50 55 60
248 Lys Cys Cys Lys Cys Asp Ser Arg Gln Pro His Asn Tyr Tyr Ser His
249 65 70 75 80
250 Arg Val Glu Asn Val Ala Ser Ser Ser Gly Pro Met Arg Trp Trp Gln
251 85 90 95
252 Ser Gln Asn Asp Val Asn Pro Val Ser Leu Gln Leu Asp Leu Asp Arg
253 100 105 110
254 Arg Phe Gln Leu Gln Glu Val Met Met Glu Phe Gln Gly Pro Met Pro
255 115 120 125
256 Ala Gly Met Leu Ile Glu Arg Ser Ser Asp Phe Gly Lys Thr Trp Arg
257 130 135 140
258 Val Tyr Gln Tyr Leu Ala Ala Asp Cys Thr Ser Thr Phe Pro Arg Val
259 145 150 155 160
260 Arg Gln Gly Arg Pro Gln Ser Trp Gln Asp Val Arg Cys Gln Ser Leu
261 165 170 175
262 Pro Gln Arg Pro Asn Ala Arg Leu Asn Gly Gly Lys Val Gln Leu Asn
263 180 185 190
264 Leu Met Asp Leu Val Ser Gly Ile Pro Ala Thr Gln Ser Gln Lys Ile

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/254,760A

DATE: 07/03/2002
TIME: 12:15:51

Input Set : A:\Sequence Listing.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#: 22 N Pos 13

VERIFICATION SUMMARY

DATE: 07/03/2002

PATENT APPLICATION: US/09/254,760A

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Input Set : A:\Sequence Listing.txt

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L:927 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:22

L:928 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0